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1

④複数の着色用スプレーガン

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図面の簡単な説明

図面は本考案の実施態様を例示するもので、第1図は本案スプレーガンの縦断正面図、第2図は同縦断側面図である。

考案の詳細な説明

本考案は予じめ区分した複数色の塗料等被塗装材を一個のノズルより強制的に噴射せしめ、一工程で簡単かつ均一に所望の模様を吹付け塗装すべくしたスプレーガンの改良に関するもので、従来は各単色毎に別々のスプレーガンによつて、例えば、白地に黒色の斑点を浮出する場合には二回の塗装工程を要して非能率でしかも長年の経験と熟練した技能を必要とするにも拘わらず塗面が不均一で種々の難点を有していた。

然るに、本考案は、上記欠点を除去解決するため上部より下部に至るに従い漸次狭窄せるガンボ

2

ディ1の最下段に、適宜噴射管2を内設せる噴射室3を設け、同噴射管の長手方向に該ボディ内を区画板4により分画すると共に前記噴射室端部にノズル5を装着せしめて成る構造を特徴とするもので、図中、6はエア供給コック、7は把手を示す。

而して、本案の上記構成に従い、図示する実施例についてその具体的用法並びに効果を併記すれば、第1図に示す如く、ボディ1内は区画板4により区画されており、予じめ色別に被塗装材を収容する。塗装時においては、第2図矢印に示す如くエア供給コック6を開いて噴射管2よりノズル5を通じて外部へ噴射すると、その噴射力によつて噴射室3内に負圧を生じ、各被塗装材が吸引され、その自重と相俟て、ノズルより両被塗装材が強力に噴射される。

此の際、予じめ分画された各単色の被塗装材は色別の儘で被塗装面に吹き付けられ、手動操作で所望の模様を現出し、能率的にかつ均一に塗面を形成できるものであり、在来のスプレーガンを改作するを以て足り、費用低廉で実用効果著しい。

⑤実用新案登録請求の範囲

上部より下部に至るに従い漸次狭窄せるガンボディ1の最下段に適宜噴射管2を内設せる噴射室3を設け、同噴射管の長手方向に該ボディ内を区画板4により分画すると共に前記噴射室端部にノズル5を装着せしめて成る複数の着色用スプレーガン。

FIG. 1

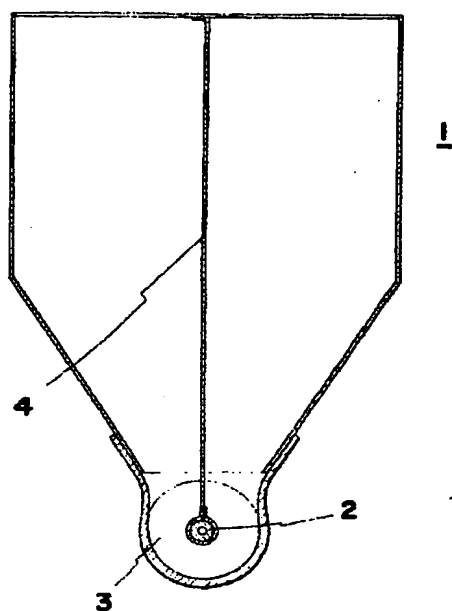
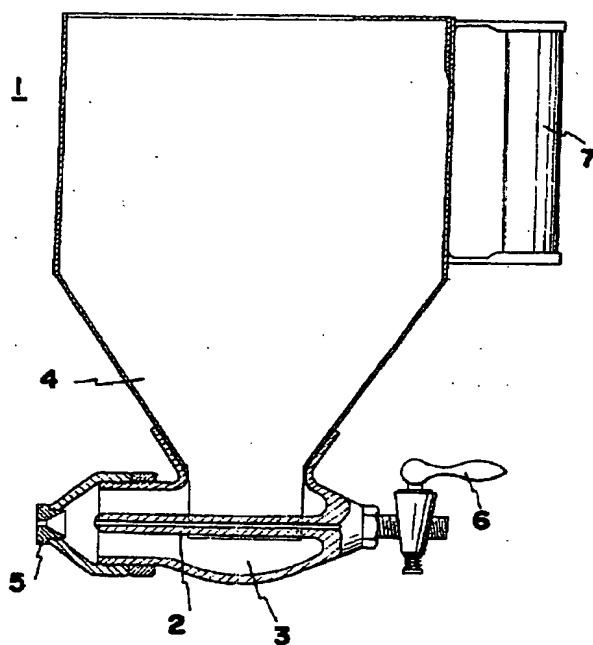


FIG. 2



Citation D3

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Applicant: SHINKO HEKIZAI KOGYO KK, Osaka

Claim:

Plural coloring spray gun: comprising an injection chamber 3 in which an appropriate injection pipe 2 is internally provided in the lowermost stage of a gun body 1 gradually narrowing from the upper portion toward the lower portion; the inside of said gun body 1 is partitioned by a partitioning plate 4 in the longitudinal direction of the injection pipe 2, and a nozzle 5 is mounted to the end of said injection chamber 3.

Related disclosure:

This invention relates to an improvement of a spray gun in which coating materials like paint, etc. of plural colors classified in advance are forced to be injected from a single nozzle whereby a desired pattern is sprayed for coating by a single step, simply and uniformly. Conventionally, for example, in case black spots are embossed on a white background, two coating steps were required by separate spray guns for every color. Such steps were not efficient and needed a skill of many experiments and dexterity, but the coated surface was not uniform causing various weak points.

However, the spray gun according to this invention is characterized in that an injection chamber 3 internally provided with a suitable injection pipe 2 is provided in the lowermost stage of a gun body 1 which is gradually narrowed as it advances from the lower portion to the upper portion, the inside of said body 1 is separated by a partitioning plate 4 in the longitudinal direction of the injection pipe 2, and a nozzle 5 is mounted to the end of

said injection chamber 3. The reference numeral 6 designates an air supply cock and 7 a handle.

In accordance with the above constitution the concrete spraying method and effect will be described by way of an embodiment with reference to the accompanying drawings. As shown in Fig. 1, the inside of the body 1 is partitioned by the partitioning plate 4, and coating materials are contained in the body for every colors in advance. At coating, if the air supply cock 6 is opened as shown with an arrow in Fig. 2 so as to inject the materials from the injection pipe 2 to the outside through a nozzle 5, a negative pressure generates in the injection chamber 3 by the injection force, when the respective coating materials are sucked, and in cooperation with its own weight both the coating materials are strongly injected from the nozzle 5.

At that time, the coating material of each single color partitioned in advance is sprayed onto the coating surface with the different colors as they are, a desired pattern is produced by a manual operation, a coating face can be produced efficiently and uniformly, it will suffice to improve a known spray gun, and low cost and practical effect will be significantly satisfactory.